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Nonlinear, Convex, Nonsmooth, Functional Analysis in Symmetry

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Deadline for manuscript submissions:
closed (1 February 2020)

Message from the Guest Editors

Dear Colleagues,

Nonlinear functional analysis is a branch of mathematical analysis that considers nonlinear mappings. This area is very popular mainly because many applications in functional analysis arise naturally in real-world problems. For example, operator theory arises in many applications in quantum mechanics, and new methods and results of functional analysis are now widely applied in mathematical physics, theoretical physics, and other areas of science. One of the main objectives of nonlinear analysis is to study differential and integral equations and nonlinear operators, and a popular area of focus is considering the local approximation of nonlinear operators by taking linear operators into account. As a result, the theory of approximation (in particular, fixed-point principles) and differential and integral calculus for functions that act between Banach space or more generally topological vector spaces are some of the basic tools of nonlinear functional analysis.

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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